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=> s (CB-CEA-1)

13472 CB

4391 CBS

17515 CB

(CB OR CBS)

6551 CEA

196 CEAS

6725 CEA

(CEA OR CEAS)

9150913 1

L1 5 (CB-CEA-1)

(CB(W)CEA(W)1)

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L2 5 DUPLICATE REMOVE L1 (0 DUPLICATES REMOVED)

=> d l2 bib abs 1-5

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:85276 CAPLUS

DN 124:172974

TI Bacterial expression and characterization of a modified scFv fragment from the anti-carcinoembryonic antigen monoclonal antibody CB-CEA.1

AU Vazquez, Javier E.; Perez, Lilia; Ayala, Martha; Canaan-Haden, Leonardo; De Lalla, C.; Sidoli, A.; Gavigondo, Jorge

CS Center Genetic Engineering and Biotechnology, Havana, 10600, Cuba

SO Biotecnologia Aplicada (1995), 12(2), 96-7  
CODEN: BTAPEP; ISSN: 0864-4551

PB Sociedad Ibero-latinoamericana de Biotecnologia Aplicada a la Salud

DT Journal

LA English

AB The authors report here the cloning, bacterial expression (*Escherichia coli*), and mol. characterization of an anti-carcinoembryonic antigen (CEA) single-chain Fv antibody fragment with potential use in the localization of tumors in CEA-pos. carcinoma patients.

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1993:78955 CAPLUS

DN 118:78955

TI Bacterial single-chain antibody fragments, specific for carcinoembryonic antigen

AU Ayala, M.; Duenas, M.; Santos, A.; Vazquez, J.; Menendez, A.; Silva, A.; Gavigondo, J. V.

CS Cent. Genet. Eng. Biotechnol., Cuba

SO BioTechniques (1992), 13(5), 790-2, 794-6, 798-9  
CODEN: BTNQDO; ISSN: 0736-6205

DT Journal

LA English

AB Single-chain antibody (scFv) fragments were produced in bacteria specific for carcinoembryonic antigen (CEA). Polymerase chain reaction (PCR) was used for the cloning and modification of the heavy and light variable regions (VH and VL) of the mouse monoclonal antibody (MAb) CB-CEA.1. Culture supernatant, bacteria pellet and periplasm preps. were assayed in Western blot, and a protein of .apprx.27 kDa was identified with rabbit antibodies specific for the Fab of CB-CEA.1. Bacterial supernatant and periplasm preps. also inhibited the recognition of CEA by HRP-labeled CB-CEA.1 in ELISA. Periplasm preps. were purified by affinity chromatog. with specific anti-idiotypic monoclonal antibodies. The Western blot of the eluates identified a protein of .apprx.27 kDa that blocked the recognition of CEA by HRP-labeled CB-CEA.1 in ELISA.

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1992:122152 CAPLUS

DN 116:122152

TI Primer design for the cloning of immunoglobulin heavy-chain leader-variable regions from mouse hybridoma cells using the PCR

AU Coloma, Maria J.; Larrick, James W.

CS Genelabs, Inc., Redwood City, CA, 94063, USA

SO BioTechniques (1991), 11(2), 152-4, 156  
CODEN: BTNQDO; ISSN: 0736-6205

DT Journal

LA English

AB To facilitate the rapid cloning and sequencing of rearranged murine heavy-chain variable regions, a set of universal primers was designed using conserved sequences of leader (signal peptide), framework one and constant regions of the Ig heavy-chain genes. RNA was extracted from the mouse hybridoma cells secreting monoclonal antibodies: IOR-T3 (anti-CD3), C6 (anti-P1 of *N. meningitidis* B385), IOR-T1 (anti-CD6), CB-CEA.1 (anti-carcinoembryonic antigen), CB-Fib.1 (anti-human fibrin) and CB-Hep.2 (anti-hepatitis B surface antigen). First-strand cDNA was synthesized and amplified using PCR. The primers successfully amplified correct size fragments from cDNA prepared from all

hybridomas. These methods will facilitate the cloning and sequencing of mouse Ig variable regions.

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 1991:56891 CAPLUS  
DN 114:56891  
TI Specific amplification of rearranged immunoglobulin variable region genes from mouse hybridoma cells  
AU Gaviñondo-Cowley, Jorge V.; Coloma, Maria J.; Vazquez, Javier; Ayala, Marta; Macias, Amparo; Fry, Kirk E.; Larrick, James W.  
CS Div. Hybridomas Anim. Models, Cent. Genet. Eng. Biotechnol., Havana, Cuba  
SO Hybridoma (1990), 9(5), 407-17  
CODEN: HYBRDY; ISSN: 0272-457X  
DT Journal  
LA English  
AB This article describes how the polymerase chain reaction (PCR) and primers designed for conserved sequences of leader (L), framework one (FR1) and constant (CONST) regions of Ig light and heavy chain genes can be used for the cloning and sequencing of rearranged antibody variable regions from mouse hybridoma cells. RNA was extracted from the mouse hybridoma cells secreting MAbs: IOR-T3a (anti-CD3), C6 (anti-P1 of *Neisseria meningitidis* B385), IOR-T1 (anti-CD6), CB-CEA.1 (anti-carcinoembryonic antigen), and CB-Fib.1 (anti-human fibrin). First strand cDNA was synthesized and amplified using PCR. The newly designed primers are superior to others reported recently in the literature. Isolated PCR DNA fragments of C6 and IOR-T3a were sequenced after asym. amplification, or M13 cloning. The FR1/CONST primer combinations selectively amplified mouse light chains of groups kappa II, V, and VI, and heavy chains of groups IIa and IIc. The L/CONST primers for light chains amplified light chains from all 4 hybridomas. The methods greatly facilitate structural and functional studies of antibodies by reducing the efforts required to clone and sequence their variable regions.

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 1990:156288 CAPLUS  
DN 112:156288  
TI Relative positions of some epitopes on carcinoembryonic antigen  
AU Larsson, Aake; Ghosh, Rahul; Hammarstroem, Sten  
CS Dep. Immunol., Univ. Stockholm, Stockholm, S-10691, Swed.  
SO Cancer Immunology Immunotherapy (1989), 30(2), 92-6  
CODEN: CIIMDN; ISSN: 0340-7004  
DT Journal  
LA English  
AB To investigate whether anti-(carcinoembryonic antigen) monoclonal antibodies (mAb) react with single or repeated epitopes, sandwich RIAs in homologous and heterologous combinations were performed. Four mAb (I-27, I-47, II-17, and to some degree II-16) gave homologous binding, while two mAb (I-38S1 and II-10) did not. All these mAb except II-10 react with repeated epitopes. The relative positions of the epitopes recognized by these mAb and of three addnl. mAb (II-6, II-7, and CB-CEA-1) were investigated using a plate antibody competition test with enzyme-labeled carcinoembryonic antigen (CEA). The mAb I-38S1, II-6, II-7, II-10, II-16, and CB-CEA-1 were mutually cross-reactive, and were classified as belonging to one epitope group. The mAb I-27 and I-47 fell outside this group and did not interfere with the binding of CEA conjugate to mAb II-17 either. They, therefore, represent a second epitope group. The mAb II-17 showed no interference with the binding of CEA to any of the other mAb and must therefore represent a third epitope group. The slopes of the plate antibody competition curves were used for calcn. of a correlation matrix, which in turn was used to depict the relative positions of the epitopes recognized by the mAb in the large group.

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\*\*\*BIOSIS Previews Archive (File 552)

\*\*\*BIOSIS Previews 1969-2007 (File 525)

\*\*\*Engineering Index Backfile (File 988)

\*\*\*Trademarkscan - South Korea (File 655)

## RESUMED UPDATING

\*\*\*File 141, Reader's Guide Abstracts

\*\*\*

## RELOADS COMPLETED

\*\*\*Files 154 &amp; 155, MEDLINE

\*\*\*File 5, BIOSIS Previews - archival data added

\*\*\*Files 340, 341 &amp; 942, CLAIMS/U.S. Patents - 2006 reload now online

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Chemical Structure Searching now available in Prous Science Drug  
Data Report (F452), Prous Science Drugs of the Future (F453),  
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein  
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus (File 302).

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B 155, 159, 10, 203, 35, 5, 467, 73, 434, 34

31may07 16:54:34 User290558 Session D109.1

\$0.98 0.279 DialUnits File1

\$0.98 Estimated cost File1

\$0.18 INTERNET

\$1.16 Estimated cost this search

\$1.16 Estimated total session cost 0.279 DialUnits

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File 155:MEDLINE(R) 1950-2007/May 30

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for information on 2007 changes.

File 159:Cancerlit 1975-2002/Oct

(c) format only 2002 Dialog

\*File 159: Cancerlit is no longer updating.  
Please see HELP NEWS159.

File 10:AGRICOLA 70-2007/May

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 (c) 2007 Elsevier B.V.  
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 File 34:SciSearch(R) Cited Ref Sci 1990-2007/Jun W1  
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?

S (CB (W) IOR (W) CEA (W) 1)		
	442858	CB
	1497	IOR
	56221	CEA
	16945423	1
S1	0	(CB (W) IOR (W) CEA (W) 1)

?

S (CEA AND MONOCLONAL)		
	56221	CEA
	872021	MONOCLONAL
S2	8956	(CEA AND MONOCLONAL)

?

S S2 AND CB		
	8956	S2
	442858	CB
S3	115	S2 AND CB

?

S S3 AND (CEA (W) 1)		
Processing		
Processed 10 of 10 files ...		
Completed processing all files		
	115	S3
	56221	CEA
	16945423	1
	168	CEA(W)1
S4	17	S3 AND (CEA (W) 1)

?

RD S4		
S5	5	RD S4 (unique items)

?

TYPE S5/FULL/1-5

5/9/1 (Item 1 from file: 155)  
 DIALOG(R) File 155:MEDLINE(R)

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09428616 PMID: 1418981

**Bacterial single-chain antibody fragments, specific for carcinoembryonic antigen.**

Ayala M; Duenas M; Santos A; Vazquez J; Menendez A; Silva A; Gavilondo J  
V

Division of Immunotechnology and Diagnostics, Center for Genetic Engineering and Biotechnology, La Habana, Cuba.

BioTechniques (UNITED STATES) Nov 1992, 13 (5) p790-9, ISSN 0736-6205--Print Journal Code: 8306785

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

We have produced single-chain antibody (scFv) fragments in bacteria specific for carcinoembryonic antigen (CEA). Polymerase chain reaction (PCR) was used for the cloning and modification of the heavy and light variable regions (VH and VL) of the mouse monoclonal antibody (MAb) CB-CEA.1. A 14-amino acid linker was used in the synthesis of the scFv gene. The VH and VL regions were amplified from cDNA by PCR using 5' end FR1 and 3' end constant region primers, and then sequenced. VH was then amplified by PCR using an exact 5' end FR1 primer, and a phosphorylated (PP) 3' end primer for J2 that also encoded the first 7 amino acids of the linker. VL was amplified with a PP 5' end primer for FR1, also encoding the remaining 7 amino acids of the linker, and a 3' end primer for J5, plus a stop codon and a BglII restriction site. The fragments were ligated and reamplified with the PP VH 5' and VL 3' end primers. The VH-linker-VL structure was blunt-cloned into expression vectors bearing the tryptophan promoter and pelB or ompA signal peptide sequences. Culture supernatant, bacteria pellet and periplasm preparations were assayed in Western blot and a protein of about 27 kDa was identified with rabbit antibodies specific for the Fab of CB-CEA.1. Bacterial supernatant and periplasm preparations also inhibited the recognition of CEA by HRP-labeled CB-CEA.1 in enzyme-linked immunosorbent assay (ELISA). Periplasm preparations were purified by affinity chromatography with specific anti-idiotypic MAbs. The Western blot of the eluates identified a protein of approximately 27 kDa that blocked the recognition of CEA by HRP-labeled CB-CEA.1 in ELISA. The VH-linker-VL structure was cloned into a vector bearing the lacZ promoter and the pelB signal peptide. The recombinant bacterial clones also expressed about 27 kDa scFv, specific for CEA.

Descriptors: \*Antibodies, Neoplasm--immunology--IM; \*Antibody Specificity --genetics--GE; \*Carcinoembryonic Antigen--immunology--IM; \*Immunoglobulin Fragments--immunology--IM; Amino Acid Sequence; Animals; Antibodies, Monoclonal--immunology--IM; Antibodies, Neoplasm--genetics--GE; Base Sequence; Chromatography, Affinity; Cloning, Molecular; DNA, Single-Stranded; Enzyme-Linked Immunosorbent Assay; Escherichia coli; Genetic Vectors; Hybridomas; Immunoglobulin Fragments--genetics--GE; Mice; Molecular Sequence Data; Plasmids; Polymerase Chain Reaction; Protein Binding; Recombinant Proteins--metabolism--ME

Molecular Sequence Databank No.: GENBANK/D10270; GENBANK/D10271; GENBANK/D10272; GENBANK/D10273; GENBANK/D10274; GENBANK/D10275; GENBANK/D10276; GENBANK/M63506; GENBANK/S49453; GENBANK/S49457

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Antibodies, Neoplasm); 0 (Carcinoembryonic Antigen); 0 (DNA, Single-Stranded); 0 (Immunoglobulin Fragments); 0 (Recombinant Proteins)

Gene Symbol: scFv

Record Date Created: 19921210

Record Date Completed: 19921210

5/9/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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09010334 PMID: 1931008

**Primer design for the cloning of immunoglobulin heavy-chain leader-variable regions from mouse hybridoma cells using the PCR.**

Coloma M J; Larrick J W; Ayala M; Gavilondo-Cowley J V

Genelabs, Inc., Redwood City, CA 94063.

BioTechniques (UNITED STATES) Aug 1991, 11 (2) p152-4, 156, ISSN 0736-6205--Print Journal Code: 8306785

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

To facilitate the rapid cloning and sequencing of rearranged murine heavy-chain variable regions, we have designed a set of universal primers using conserved sequences of leader (signal peptide), framework one and constant regions of the immunoglobulin heavy-chain genes. RNA was extracted from the mouse hybridoma cells secreting monoclonal antibodies: IOR-T3 (anti-CD3), C6 (anti-P1 of N. meningitidis B385), IOR-T1 (anti-CD6), CB-CEA.1 (anti-carcinoembryonic antigen), CB-Fib.1 (anti-human fibrin) and CB-Hep.2 (anti-hepatitis B surface antigen). First-strand cDNA was synthesized and amplified using PCR. The primers successfully amplified correct size fragments from cDNA prepared from all hybridomas. These methods will facilitate the cloning and sequencing of mouse immunoglobulin variable regions.

Descriptors: \*Immunoglobulin Heavy Chains--genetics--GE; \*Immunoglobulin Variable Region--genetics--GE; \*Polymerase Chain Reaction; Animals; Base Sequence; Cell Line; Cloning, Molecular; DNA--chemical synthesis--CS; Hybridomas; Mice; Molecular Sequence Data; Polydeoxyribonucleotides--chemical synthesis--CS

CAS Registry No.: 0 (Immunoglobulin Heavy Chains); 0 (Immunoglobulin Variable Region); 0 (Polydeoxyribonucleotides); 9007-49-2 (DNA)

Record Date Created: 19911203

Record Date Completed: 19911203

5/9/3 (Item 3 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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08323758 PMID: 2611022

**CEA in colonic adenocarcinomas and precancerous lesions. An immunohistochemical study with a novel monoclonal antibody.**

Tormo B R; Gavilondo J V; Dominguez C; Freyre M; Rodriguez T; Biberfeld P

Instituto Nacional de Oncologia y Radiobiologia, Departamento de Biologia, La Habana, Cuba.

APMIS - acta pathologica, microbiologica, et immunologica Scandinavica (DENMARK) Dec 1989, 97 (12) p1073-80, ISSN 0903-4641--Print

Journal Code: 8803400

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Using a new anti-CEA (CB-CEA-1) murine monoclonal antibody, the expression of carcinoembryonic antigen (CEA) was studied in normal, premalignant and malignant human adult tissues with particular emphasis on colorectal mucosa. The CB-CEA-1 epitope was poorly expressed in normal adult tissues but was consistently found in colon cancers and adenomas in distinctive immunohistochemical patterns. Some apical staining was found with CB-CEA-1 in cells of normal colon mucosa whereas colon adenocarcinomas had a predominantly cytoplasmic staining pattern. Colonic adenomas presented a varied staining pattern. Some showed apical staining, others a CEA distribution pattern similar to that of adenocarcinomas, particularly those with a villous component. Our findings indicate a differential expression of CB-CEA-1 in adenoma cells in relation to their potential for malignant transformation. The possible usefulness of this Mab defined epitope for diagnostic and therapeutic purposes is indicated.

Descriptors: \*Adenocarcinoma--metabolism--ME; \*Carcinoembryonic Antigen--metabolism--ME; \*Colonic Neoplasms--metabolism--ME; \*Precancerous Conditions--metabolism--ME; Adenocarcinoma--pathology--PA; Antibodies, Monoclonal--diagnostic use--DU; Antibodies, Monoclonal--immunology--IM; Carcinoembryonic Antigen--immunology--IM; Colonic Neoplasms--diagnosis--DI; Colonic Neoplasms--pathology--PA; Humans; Immunohistochemistry; Precancerous Conditions--diagnosis--DI; Precancerous Conditions--pathology--PA

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Carcinoembryonic Antigen)

Record Date Created: 19900302

Record Date Completed: 19900302

5/9/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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08300833 PMID: 2480845

**Relative positions of some epitopes on carcinoembryonic antigen.**

Larsson A; Ghosh R; Hammarstrom S

Department of Immunology, University of Stockholm, Sweden.

Cancer immunology, immunotherapy - CII (GERMANY, WEST) 1989, 30 (2)  
p92-6, ISSN 0340-7004--Print Journal Code: 8605732

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

To investigate whether anti-(carcinoembryonic antigen) monoclonal antibodies (mAb) react with single or repeated epitopes, sandwich radioimmunoassays in homologous and heterologous combinations were performed. Four mAb (I-27, I-47, II-17 and to some degree II-16) gave homologous binding while two mAb (I-38S1 and II-10) did not. Taken together with previous immunoprecipitation studies we conclude that all these mAb except II-10 react with repeated epitopes. The relative positions of the epitopes recognized by these mAb and of three additional mAb (II-6, II-7 and CB-CEA-1) were investigated using a plate antibody competition test with enzyme-labelled carcinoembryonic antigen (CEA). mAb I-38S1, II-6, II-7, II-10, II-16 and CB-CEA-1 were mutually cross-reactive, and were classified as belonging to one epitope group. mAb I-27 and I-47 fell outside this group and did not interfere with the binding of CEA conjugate to mAb II-17 either. They therefore represent a second epitope group. mAb

II-17 showed no interference with the binding of CEA to any of the other mAb and must therefore represent a third epitope group. The slopes of the plate antibody competition curves were used for calculation of a correlation matrix, which in turn was used to depict the relative positions of the epitopes recognized by the mAb in the large group.

Descriptors: \*Carcinoembryonic Antigen--immunology--IM; \*Epitopes --analysis--AN; Antibodies, Monoclonal--diagnostic use--DU; Humans

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Carcinoembryonic Antigen); 0 (Epitopes)

Record Date Created: 19900129

Record Date Completed: 19900129

5/9/5 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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**Bacterial expression and characterization of a modified scFv fragment from the anti-carcinoembryonic antigen monoclonal antibody CB.CEA.1**

AUTHOR: Vazquez Javier E (Reprint); Perez Lilia (Reprint); Ayala Martha (Reprint); Canaan-Haden Leonardo (Reprint); De Lalla C; Sidoli A; Gavilondo Jorge (Reprint)

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JOURNAL: Biotecnologia Aplicada 12 (2): p96-97 1995 1995

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Metabolism; Oncology--Human Medicine, Medical Sciences; Physiology

BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGANISMS: human (Hominidae)

COMMON TAXONOMIC TERMS: Animals; Chordates; Humans; Mammals; Primates; Vertebrates

MISCELLANEOUS TERMS: ANTIBODY RECOGNITION PATTERN; CARCINOEMBRYONIC

ANTIGEN; MOLECULAR CHARACTERIZATION; NOTE; TUMOR LOCALIZATION

CONCEPT CODES:

10064 Biochemistry studies - Proteins, peptides and amino acids

10068 Biochemistry studies - Carbohydrates

10506 Biophysics - Molecular properties and macromolecules

13004 Metabolism - Carbohydrates

13012 Metabolism - Proteins, peptides and amino acids

24006 Neoplasms - Biochemistry

31000 Physiology and biochemistry of bacteria

36002 Medical and clinical microbiology - Bacteriology

BIOSYSTEMATIC CODES:

86215 Hominidae

?

S (CB (W) CEA (W) 1)

442858 CB

56221 CEA

16945423 1

S6 20 (CB (W) CEA (W) 1)

?

S S6 AND (THERAP? OR TREAT?)

## Processing

Processed 10 of 10 files ...

Completed processing all files

20 S6  
9076329 THERAP?  
10091335 TREAT?  
S7 4 S6 AND (THERAP? OR TREAT?)

?

RD S7

S8 1 RD S7 (unique items)

?

TYPE S8/FULL/1

8/9/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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CEA in colonic adenocarcinomas and precancerous lesions. An immunohistochemical study with a novel monoclonal antibody.

Tormo B R; Gaviñondo J V; Dominguez C; Freyre M; Rodriguez T; Biberfeld P  
Instituto Nacional de Oncología y Radiobiología, Departamento de Biología,  
La Habana, Cuba.

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Using a new anti-CEA (CB-CEA-1) murine monoclonal antibody, the expression of carcinoembryonic antigen (CEA) was studied in normal, premalignant and malignant human adult tissues with particular emphasis on colorectal mucosa. The CB-CEA-1 epitope was poorly expressed in normal adult tissues but was consistently found in colon cancers and adenomas in distinctive immunohistochemical patterns. Some apical staining was found with CB-CEA-1 in cells of normal colon mucosa whereas colon adenocarcinomas had a predominantly cytoplasmic staining pattern. Colonic adenomas presented a varied staining pattern. Some showed apical staining, others a CEA distribution pattern similar to that of adenocarcinomas, particularly those with a villous component. Our findings indicate a differential expression of CB-CEA-1 in adenoma cells in relation to their potential for malignant transformation. The possible usefulness of this Mab defined epitope for diagnostic and therapeutic purposes is indicated.

Descriptors: \*Adenocarcinoma--metabolism--ME; \*Carcinoembryonic Antigen--metabolism--ME; \*Colonic Neoplasms--metabolism--ME; \*Precancerous Conditions--metabolism--ME; Adenocarcinoma--pathology--PA; Antibodies, Monoclonal--diagnostic use--DU; Antibodies, Monoclonal--immunology--IM; Carcinoembryonic Antigen--immunology--IM; Colonic Neoplasms--diagnosis--DI; Colonic Neoplasms--pathology--PA; Humans; Immunohistochemistry; Precancerous Conditions--diagnosis--DI; Precancerous Conditions--pathology--PA

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Carcinoembryonic Antigen)

Record Date Created: 19900302

Record Date Completed: 19900302

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Set	Items	Description
S1	0	(CB (W) IOR (W) CEA (W) 1)
S2	8956	(CEA AND MONOCLONAL)
S3	115	S2 AND CB
S4	17	S3 AND (CEA (W) 1)
S5	5	RD S4 (unique items)
S6	20	(CB (W) CEA (W) 1)
S7	4	S6 AND (THERAP? OR TREAT?)
S8	1	RD S7 (unique items)

?